

**ABSTRACT****A MODULATED POWER SUPPLY**

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A modulated power supply comprises a converter having a primary power switching device and a secondary power switching device. The outputs of the primary and secondary power switching devices are combined to provide an output. A controller  
10 controls operation of the switching devices in response to a modulating input signal. Only the primary power switching device is operated while a property of the input signal lies within a first predetermined range and both the primary and the secondary power switching devices are operated while the  
15 property of the input signal lies outside the first predetermined range. This can reduce switching losses in comparison to operating the full array of switches. This is particularly well-suited to peaky signals. The property of the modulating input signal which causes the controller to bring  
20 secondary power switching devices into operation can be amplitude or rate of change of amplitude.